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Overview

This quick installation guide describes the objectives, organization and basic installation of the PLANET IPX-1000 full function PBX system, and offers uniform platform for both voice commu-nications as well as network communications. Also, this guide shows you how to find additional information on related products and services.

The IPX-1000 integrates a web-based graphical user interface that can cover most configurations and machine status monitoring. Via standard, web browser, you can configure and check machine status from anywhere around the world.

Document Objectives

This guide provides physical installation, LAN/WAN IP configurations, and Internet access establishment information for the PLANET IPX-1000.

Document Organization
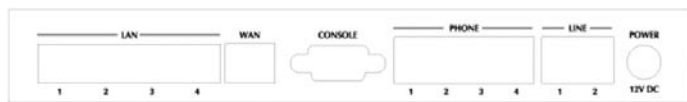
This guide is organized as follows:

- Preparation before beginning administration on IPX-1000
- Administration interface
- LAN/WAN Interface quick configurations

Preparation before beginning administration on IPX-1000

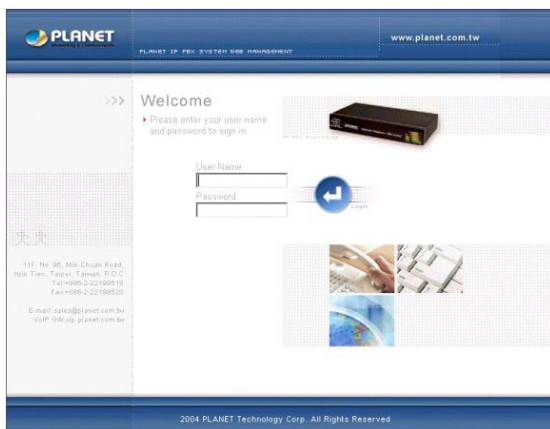## Physical Installation

Front Panel of IPX-1000

Rear Panel of IPX-1000

- Ensure IPX-1000 is power OFF before commencing, and check the power supply status.

- Use standard LAN cables to connect PCs to the LAN ports on IPX-1000.

- Connect the supplied Power Adapter and power on.

- Please check the LEDs -

  -- The PWR LED should be ON.

  -- For each active LAN (PC) connection, the LAN LNK/ACT LED should be ON.

  -- If the WAN interface is properly connected with xDSL modem or switch, the WAN LED should be ON

Administration Interface

PLANET IPX-1000 provides GUI (Web based, Graphical User Interface) for machine management and administration.

Web configuration access

Either LAN or WAN connection can be used for IPX-1000 administration, you must have one of these web browsers installed on computer for web management

- Netscape Communicator 4.03 or higher

- Microsoft Internet Explorer 4.01 or higher with Java support

Default LAN interface IP address of IPX-1000 is 192.168.0.1. Please execute the web browser, and insert http://192.168.0.1 in the address bar to log in IPX-1000 web configuration page.

IPX-1000 will prompt for sign in User Name and Password, please enter: admin , 123 to continue machine Web Management.

Default WAN interface IP address of IPX-1000 is 172.16.0.1. Please execute the web browser, and insert http://172.16.0.1 in the address to log in IPX-1000 web configuration page.

IPX-1000 will prompt for sign in User Name and Password, please enter: admin , 123 to continue machine Web Management.

✍ NOTE:	Please locate your PC in the same network segment (192.168.0.x) of IPX-1000. If you re not familiar with TCP/IP, please refer to related chapter on user s manual CD or consult your network administrator for proper network configurations.

LAN/WAN Interface quick configurations

PLANET IPX-1000 comes with two default IP addresses, default LAN side IP address is 192.168.0.1 , and default WAN side IP address is 172.16.0.1 . You may use any PC to connect to the LAN port of IPX-1000 to start machine administration.

☝ Hint	In general cases, the LAN IP address is the default gateway of LAN side workstations for Internet access, and the WAN IP of IPX-1000 is the IP address for remote calling party to connect with.

LAN IP address configuration via web configuration interface

SETP 1:

Please execute you web browser, and insert the IP address (default: http: //192.168.0.1) of IPX-1000 in the adddress bar.

SETP 2:

Please logging on IPX-1000 with Username and Password (default: admin / 123)

SETP 3:

Please select LAN/WAN Configuration item on the Network Service configuration menu. After entering LAN/WAN Configuration page and please click the LAN configuration button, the configuration screen is shown below.

The LAN Mode Parameter Description of IPX-1000

IP	LAN IP address of IPX-1000
	Default: 192.168.0.1
Subnet Mask,	LAN mask of IPX-1000
	Default: 255.255.255.0

WAN IP address configuration via web configuration interface

SETP 1:

PPlease execute you web browser, and insert the IP address (**default: 172.16.0.1**) of IPX-1000 in the adddress bar.

SETP 2:

Please logging on IPX-1000 with Username and Password (**default: admin / 123**)

SETP 3:

Please select LAN/WAN Configuration on the Network Service configuration menu. After entering LAN/WAN Configuration page and please click WAN configuration button, the configuration screen is shown below.

WAN connection type in IPX-1000

The Internet connection types supported in IPX-1000 are PPPoE, DHCP client and the fixed IP allocation. Please be sure to choose proper connection type for Internet access.

Parameter Description

Fixed IP allocation

Certain ISP provides a fixed IP address to each of its subscriber. This parameter allows users to setup the fixed IP address assigned by ISP. Your ISP should provide all the information required for Internet access.

PPPoE connection

If the ISP demands PPPoE connection for Internet access, please select PPPoE as connection type, and insert the username/password provided by your ISP to connect you to the Internet.

DHCP connection

Please choose the DHCP client connection if ISP automatically assigns IP address for Internet connection. Some ISP s may require additional information such as Host Name, Domain Name and MAC address.

Connection Type	Data required.
Static IP	IP, Subnet mask, Gateway, IP address of DNS server
PPPoE	Username, Password
DHCP Client	Usually, none. But some ISP may require a particular Hostname, Domain name, or MAC (physical) address.

> Please consult your ISP personnel to obtain proper PPPoE/IP address related information, and input carefully.
>
> If Internet connection cannot be established, please check the physical connection or contact the ISP service staff for support information.

Hint

LAN Clients Internet Access Setup

- When WAN interface of IPX-1000 is properly configured, with default Windows TCP/IP settings, no changes need to be made on LAN side PC for Internet access.

- If using a specified (fixed) IP address on your PC, refer to the user manual for details of the required changes:

- The Gateway must be set to the IP address of IPX-1000

- The DNS should be set to the address provided by your ISP.

For Windows 9x/ME/2000

- Select Start Menu - Settings - Control Panel - Internet Options.

- Select the Connection tab, and click the Setup button.

- Select "I want to set up my Internet connection manually, or I want to connect through a local area network (LAN)" and click Next.

- Select "I connect through a local area network (LAN)" and click Next.

- Ensure all of the boxes on the following Local area network Internet Configura-

tion screen are unchecked.

- Check the "No" option when prompted "Do you want to set up an Internet mail account now?"

- Click Finish to close the Internet Connection Wizard.

Setup is now completed.

For Windows XP

- Select Start Menu - Control Panel - Network and Internet Connections.

- Select Set up or change your Internet Connection.

- Select the Connection tab, and click the Setup button.

- Cancel the pop-up "Location Information" screen.

- Click Next on the "New Connection Wizard" screen.

- Select "Connect to the Internet" and click Next.

- Select "Set up my connection manually" and click Next.

- Check "Connect using a broadband connection that is always on" and click Next.

- Click Finish to close the New Connection Wizard.

Setup is now completed.

Pre-configurations for voice over IP communications

PLANET IPX-1000 is not only a PBX system, but also capable of establishing the VoIP communications. There are three communication modes supported in IPX-1000:

i) IPX mode

The IPX communication mode is designed for voice communications between IPX-1000S. In the IPX mode, both the call originator and the calling party are required to have static IP address to be operational. It is highly recommended to set machine in IPX mode if both calling parties are IPX-1000. When two IPX-1000 communicate in the IPX mode, the IPX-1000 offers more Off-Net call controls to bring more convenience and functionalities in the VoIP applications.

ii) Gateway (GW) mode

The GW mode is used when the other calling party is H.323 compliant voice gateway. In the GW mode, the IPX-1000 is performing Peer-to-Peer voice com-

iii) Gatekeeper (GK) mode

When the IPX-1000 runs in GK mode, and registers with the H.323 GK, the voice calls are passed through the gatekeeper to the remote calling party. The GK mode is useful while the installation site is a dynamic IP environment.

Calling party quick configurations

Adding Calling Party

Parameter Description

Seq.No.

Assign a unique number for the calling destination

Name

Name of calling party

Calling Destination

From the drop down list, select a mode to use when communicating with this server.

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ii. Gateway (GW) mode

The GW mode is used when the other calling party is H.323 compliant voice gateway. In the GW mode, the IPX-1000 is performing Peer-to-Peer voice communication toward the remote calling party.

iii. Gatekeeper (GK) mode

When the IPX-1000 runs in GK mode, and registers with the H.323 GK, the voice calls are passed through the gatekeeper to the remote calling

party. The GK mode is useful while the installation site is a dynamic IP environment.

Add calling party

After entering the sequence number and the name of the calling party, click on DONE button to add a calling party in machine database.

Please be sure to assign the communication type, and the IP address/ Domain name information of the calling party for voice communications.

	Add calling party		
⊳	Seq.No.	Name	Destination
⊳			IPX ▾

DONE

	Add Calling Party	
⊳	Seq.No.	5000
⊳	Name	IPX-1000
⊳	Destination	IPX
⊳	Type of destination	IP ▾
⊳	IP	210 . 66 . 155 . 87

After clicking DONE button, and the information of the added calling party will be displayed as follows:

	Calling party info				
⊳	Seq.No.	Name	Type	IP type	IP or domain or GK ID
⊳	5000	IPX-1000	IPX	IP	210.66.155.87

Add telephone number for calling party

To bring the most convenience to users, IPX-1000 integrates several types of dialing mechanism to the calling party:

i) Abbrev Code

The assigned 3 digits will be used to speed dial to the remote calling destination

ii) Postfix Code

The postfix numbers will be sent to the remote calling party to find the destination

iii)VoIP Server

Type of calling destination

Operation steps

Please select IPX-1000 on the Calling party info menu. You will see the configuration screen below, please added the Name / Abbrev code/ PostFix code and select VoIP server on the Add VoIP TEL.

	Add VoIP TEL			
▷	Name	Abbrev code	PostFix code	VoIP server
▷				IPX-1000[IPX] ▾
			DONE	

Parameter Description

Name

Enter a name for this VoIP extension.

Abbrev code

The dialed number to connect to the calling party.

Postfix code

The postfix numbers will be sent to the remote calling party to find the destination

VoIP server

The calling destination From the drop down list, select a VoIP server to use for this VoIP extension.

You should have already set up one or more VoIP servers; otherwise no choices will be available.

Calling Party Configuration:

If you d like to edit the calling party information, please select an entry from the drop down list and click on the Edit button.

	Calling party config
▷	IPX-1000 ▾
	Edit

Delete Calling Party:

If you d like to delete an existing calling party, please select an entry from the drop down list and click on the DELETE button to remove the entry.

Voice communication samples

In this section, we ll lead you step by step to establish your first voice communication via web browsers operations.

Default Configuration

Without any configuration, your IPX-1000 is come with following basic information.

Network:

WAN IP: **172.16.0.1**, Mask: **255.255.0.0** Gateway: **0.0.0.0**

LAN IP: **192.168.0.1**, Mask: **255.255.255.0**

Extension number:

Extension test:

Supposing you have one IPX-1000 connect to four telephones, just pick up phone 1 and dial '124' , phone 4 should rings.

☎ ♪124 ⇨ PBX ⇨local port #4 ⇨☎)))

Ext 1: 121

Ext 2: 122   Ext 3: 123   Ext 4: 124

Communication sample from IPX-1000 to IPX-1000

Network settings

IPX-1000 A WAN IP: **210.66.155.80**, Mask: 255.255.255.0 Gateway: 210.66.155.94

IPX-1000 B WAN IP: **210.66.155.90**, Mask: 255.255.255.0 Gateway: 210.66.155.94
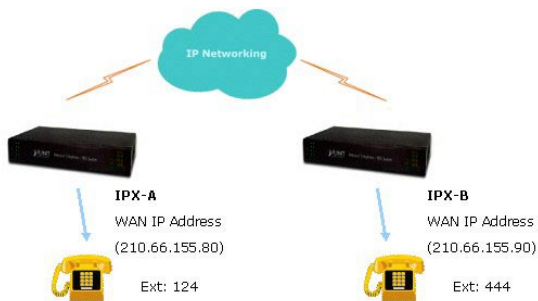
Extension number configurations

IPX-A:

⚙	**Extension Line Configuration**			
►	Ext. 121	Ext. 122	Ext. 123	Ext. 124
►	📞	📞	📞	📞
►	Click icon to start configuration			

IPX-B:

⚙	**Extension line configuration**			
►	Ext. 111	Ext. 222	Ext. 333	Ext. 444
►	📞	📞	📞	📞
►	Click icon to start configuration			

Assuming the EXT. 124 on site A, EXT. 444 on site B are connected with telephone sets.

Start communication

STEP 1 Adding calling party:

Log in IPX-A, and browse to the on the Telephone Service --> Calling party configuration menu. In the configuration page, please insert the Seq.No. / Name, IP address information to add the remote IPX-B in IPX-1000 A database.

STEP 2:

After clicking DONE button, and then the configuration screen appears below.

STEP 3 Adding telephone number for remote calling party:

Please select IPX-B item on the Calling party info menu. You will see the configuration screen below, please added the Name / Abbrev code/ PostFix code and select VoIP server on the Add VoIP TEL.

Add VoIP TEL			
Name	Abbrev code	PostFix code	VoIP server
			IPX-B[IPX] ▾
		DONE	

STEP 4:

After clicking DONE button, and then the configuration screen appears below.

VoIP Tel data			
Name	Abbrev code	PostFix code	VoIP server
IPX-B_444	444	444	IPX-B[IPX]

STEP 5:

Please refer to the steps above to complete the calling party configurations on IPX-1000 B.

STEP 6: Test calls

IPX-A:

Please pick up extension 124 and dial 444 . The extension 444 on the IPX-1000 B shall ring.

IPX-B:

Please pick up extension 444 and dial 124 . The extension 124 on the IPX-1000 A shall ring.

Quick reference in CD-ROM guide

This guide is used to help you to startup the IPX-1000 settings. It is also recommended to check the user manual CD-ROM for more details on product features; web configurations, Internet features and how to setup machine via extension keypad operations.